

## ABSTRACT

Disclosed is an apparatus for creating an aperiodic recursive multiplex (ARM) code having a predetermined length by receiving a first sequence having  
5 a given length. The apparatus outputs a third sequence by multiplying the first sequence by a second sequence alternating between +1 and -1, the second sequence being identical in length to the first sequence. A fourth sequence is output by time-multiplexing the first sequence and the third sequence.

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